

# MonthlyFocus



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[www.arl.army.mil](http://www.arl.army.mil)

*News from the Army's national research laboratory*

## Army leverages virtual reality to understand network influence



Immersive virtual reality isn't just for amusement parks, the U.S. Army is funding research that uses it to understand group dynamics. Immersive reality combines virtual reality with images, sounds, or other stimuli to provide an engrossing environment. <https://www.army.mil/article/247165>



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## Army researchers develop innovative framework for training AI



Army researchers developed a pioneering framework that provides a baseline for the development of collaborative multi-agent systems. This reinforcement learning establishes a baseline for researchers seeking to develop autonomous multi-agent systems. <https://www.army.mil/article/247261>



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## Agreement brings Soldiers, academia together to solve military challenges



Army scientists partnered with combat arms units to create closer working relationships between Soldiers and universities. The partnership between the DEVCOM and the XVIII Airborne Corps will help to solve military challenges.

<https://www.army.mil/article/247309>



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## Army researchers gain insights on material-converting fungi



Army science and technology aims to deliver a way to use gene editing to convert waste materials into something useful.

<https://www.army.mil/article/247306>



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*Building the DEVCOM Shared Understanding!*

## Army researchers develop game-changing cybersecurity software tool



Army researchers are creating technologies for decision makers to identify and execute the best-course-of-action cybersecurity defense in near-real-time and time-constrained situations.

<https://www.army.mil/article/247334>



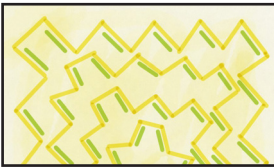
## Uniforms with programmable fiber could transmit data and more



Army-funded research has resulted in the development of a programmable fiber that could transmit data from military uniforms. <https://www.army.mil/article/247472>



## Pioneering chemistry approach could lead to more robust soft electronics



A new approach to studying conjugated polymers made it possible for an Army-funded research team to measure, for the first time, the individual molecules' mechanical and kinetic properties during polymerization reaction. <https://www.army.mil/article/247542>



## AI-driven Soldier technology wins praise from engineering society



The Institute of Electrical and Electronics Engineers Communications Society recognized an Army researcher and collaborators their work on artificially intelligent techniques that will enhance Soldiers' situational awareness in the multi-domain operating environment.

<https://www.army.mil/article/247474>

## Army program introduces new software for robot autonomy



Army researchers successfully developed a suite of new software capabilities for the Army's future robots. The Scalable, Adaptive and Resilient Autonomy, or SARA, program, which started in the midst of the pandemic, marks a milestone of one year of extramural research.

<https://www.army.mil/article/247978>

## Army's national research lab seeks DEI leader



DEVCOM Army Research Laboratory announced its intention to fill a newly-created role to foster diversity, equity and inclusion among its diverse workforce and collaborators.

<https://www.army.mil/article/247308>

## Army partners with innovators in xTech competitions



The U.S. Army holds a series of nationwide competitions to revolutionize the way it attracts and encourages innovation. The venture, which launched in 2018, is called xTech, and it is now in its fifth iteration. <https://www.army.mil/article/247202>